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☐ 1. Document ID: US 20030004244 A1 WO 200066659 A1 AU 200045872 A EP 1173508 A1

L2: Entry 1 of 1

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DERWENT-ACC-NO: 2001-040899

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TITLE: Additive for reducing residual levels of acetaldehyde in polyethylene terephthalate processing comprises a polyhydroxy aliphatic compound e.g. trimethylolpropane

INVENTOR: AL-MALAIKA, S

PATENT-ASSIGNEE:

ASSIGNEE

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PRIORITY-DATA: 1999GB-0009956 (April 29, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030004244 A1	January 2, 2003		000	C08K005/05
WO 200066659 A1	November 9, 2000	E	048	C08K005/00
AU 200045872 A	November 17, 2000		000	C08K005/00
EP 1173508 A1	January 23, 2002	E	000	C08K005/00

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20030004244A1	October 29, 2001	2001US-0046624	
WO 200066659A1	April 28, 2000	<u>2000WO-GB01646</u>	
AU 200045872A	April 28, 2000	2000AU-0045872	
AU 200045872A		WO 200066659	Based on
EP 1173508A1	April 28, 2000	2000EP-0927469	
EP 1173508A1	April 28, 2000	<u>2000WO-GB01646</u>	
EP 1173508A1		WO 200066659	Based on

INT-CL (IPC): C08 J 3/205; C08 K 5/00; C08 K 5/05; C08 K 5/053; C08 K 5:527; C08 L 67/02; C08 K 5/00; C08 K 5:053; C08 K 5:13; C08 K 5:3492; C08 K 5:527; C08 K 5:3492; C08 K 5:13; C08 K 5:053; C08 K 5/00

ABSTRACTED-PUB-NO: WO 200066659A

BASIC-ABSTRACT:

NOVELTY - A polymer additive comprises an aliphatic, aliphatic-cycloaliphatic or cycloaliphatic compound containing at least two hydroxy groups, uniformly dispersed in a polyester-compatible organic liquid carrier. The additive is added to thermoplastic molding compositions comprising polyethylene terephthalate (PET), or its copolyester, to reduce the amount of acetaldehyde formed during polymer processing.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) A thermoplastic PET molding composition containing the hydroxy compound.
- (2) An injection molding process using the composition for the production of molded articles.
- (3) Molded articles made by the process.

USE - The PET composition may be used to form injection molded articles such as preforms (claimed) which may be used in a subsequent blow molding step to form bottles (claimed).

ADVANTAGE - Residual aldehyde levels in the polyester material are reduced without discoloration of the material during injection molding.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: ADDITIVE REDUCE RESIDUE LEVEL ACETALDEHYDE POLYETHYLENE TEREPHTHALATE
PROCESS COMPRISE ALIPHATIC COMPOUND

DERWENT-CLASS: A23 A92 E19 Q32

CPI-CODES: A05-E01; A08-A01B; A08-A06; A11-B12; E10-A07; E10-E04H; E10-E04J;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H4 H405 H484 H8 M280 M315 M321 M332 M344 M383
M391 M416 M620 M781 M904 M905 Q130 R038

Specific Compounds

A0338K A0338U

Chemical Indexing M3 *02*

Fragmentation Code

H4 H405 H484 H8 K0 L8 L814 L821 L833 M280
M315 M321 M332 M344 M383 M391 M416 M620 M781 M904
M905 M910 Q130 R038

Specific Compounds

00032K 00032U

Registry Numbers

0032U

Chemical Indexing M3 *03*

Fragmentation Code

H4 H405 H484 H8 K0 L8 L816 L821 L833 M280
M315 M321 M332 M344 M383 M391 M416 M620 M781 M800
M904 M905 Q130 R038

Specific Compounds

07423K 07423U

Chemical Indexing M3 *04*

Fragmentation Code

H4 H405 H484 H5 H582 H8 M280 M315 M323 M334
M344 M383 M393 M416 M620 M781 M904 M905 Q130 R038

Specific Compounds

13511K 13511U